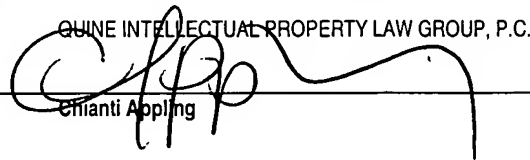


I hereby certify that this correspondence is being deposited with the United States Postal Service Express Mail Label No. EV331047261US in an envelope addressed to: Mail Stop Divisional Application, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on November 25, 2003

By    
CHIANTI APPLING  
QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

Attorney Docket No. 407T-894302US  
Client Ref. No. 99-022-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bocian, David F. et al.

Application No.:

Filed: October 28, 2003

For: HIGH DENSITY NON-VOLATILE  
MEMORY DEVICE

Examiner: Huan Hoang

Art Unit: 2818

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on the attached PTO-1449 form are being called to the attention of the Examiner to make of record references cited in parent application USSN 10/053,814 (now U.S. Patent 6,657,884) filed January 18, 2002. Pursuant to 37 CFR § 1.98(d), copies of references cited in parent application USSN 10/053,814 (now U.S. Patent 6,657,884) filed January 18, 2002 are not provided. However the applicants will gladly provide fresh copies of any references requested by the Examiner.

It is respectfully requested that the cited information on the attached 1449 form(s) be expressly considered during the prosecution of this application, and that references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Tom Hunter', with a long horizontal flourish extending to the right.

Tom Hunter, J.D., Ph.D.  
Reg. No. 38,498

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(Modified) PTO/SB/08A-B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031

Substitute for form 1449A-B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; padding: 2px;">Complete if Known</th> </tr> <tr> <td style="width: 60%; padding: 2px;">Application Number</td> <td style="padding: 2px;">10/053,814</td> </tr> <tr> <td style="padding: 2px;">Filing Date</td> <td style="padding: 2px;">January 18, 2002</td> </tr> <tr> <td style="padding: 2px;">First Named Inventor</td> <td style="padding: 2px;">David F. Bocian</td> </tr> <tr> <td style="padding: 2px;">Group Art Unit</td> <td style="padding: 2px;">2818</td> </tr> <tr> <td style="padding: 2px;">Examiner Name</td> <td style="padding: 2px;">Huan H ang</td> </tr> <tr> <td style="padding: 2px;">Attorney Docket Number</td> <td style="padding: 2px;">407T-894301US</td> </tr> <tr> <td style="padding: 2px;">Date Submitted</td> <td style="padding: 2px;">April 9, 2003</td> </tr> </table>	Complete if Known		Application Number	10/053,814	Filing Date	January 18, 2002	First Named Inventor	David F. Bocian	Group Art Unit	2818	Examiner Name	Huan H ang	Attorney Docket Number	407T-894301US	Date Submitted	April 9, 2003
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U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	1	3,637,581		Horiguchi et al.	1/25/1972	
	2	3,833,894		Aviram et al.	9/3/1974	
	3	4,618,509		Bulkowski	10/21/1986	
	4	4,663,270		Potember et al.	5/5/1987	
	5	4,670,860		Wilson	6/2/1987	
	6	4,728,724		Jones et al.	3/1/1988	
	7	4,781,443		Giles	11/1/1988	
	8	5,010,451		Ueyama et al.	4/23/1991	
	9	5,016,063		Beratan et al.	5/14/1991	
	10	5,035,835		Asakawa et al.	07/30/1991	
	11	5,063,417		Hopfield	11/5/1991	
	12	5,075,738		Matsuda et al.	12/24/1991	
	13	5,091,502		Narang et al.	2/25/1992	
	14	5,135,537		Eida et al.	8/4/1992	
	15	5,222,060		Kuroda et al.	6/22/1993	
	16	5,252,698		Bhardwaj et al.	10/12/1993	
	17	5,264,876		Kawade et al.	11/23/1993	
	18	5,280,183		Batzel et al.	1/18/1994	
	19	5,312,896		Bhardwaj et al.	5/17/1994	
	20	5,432,379		Eguchi et al.	7/11/1995	
	21	5,434,842		Weiss et al.	7/18/1995	
	22	5,463,014		Epstein et al.	10/31/1995	
	23	5,475,075		Brant et al.	12/12/1995	
	24	5,506,420		Kossovsky et al.	4/9/1996	
	25	5,525,811		Sakurai et al.	6/11/1996	
	26	5,539,100		Wasielewski et al.	7/23/1996	

Examiner Signature	Date Considered
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	Examiner Name	Huan Hoang
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	27	5,547,774		Gimzewski et al.	8/20/1996	
	28	5,707,845		Ueyama et al.	1/13/1998	
	29	5,744,598		Skalkos et al.	4/28/1998	
	30	5,804,850		Evans, Jr. et al.	9/8/1998	
	31	5,814,420		Chu	9/29/1998	
	32	5,840,443		Gregg et al.	11/24/1998	
	33	5,844,055		Brandt et al.	12/1/1998	
	34	5,858,666		Weiss	1/12/1999	
	35	6,013,170		Meade	1/11/2000	
	36	6,031,756		Gimzewski et al.	2/29/2000	
	37	6,128,214		Kuekes et al.	10/3/2000	
	38	6,208,553		Gryko et al.	3/27/2001	
	39	6,212,093		Lindsey	4/3/2001	
	40	6,272,038		Clausen et al.	8/7/2001	
	41	6,324,091		Gryko et al.	11/27/2001	
	42	6,381,169		Bocian et al.	4/30/2002	
	43	6,451,942		Li et al.	9/17/2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	44	EP	0 272935	A3	Canon	6/29/1988		
	45	EP	0 307210	A2	Seiko	3/15/1989		
	46	EP	0 307211	A2	Seiko	3/15/1989		
	47	EP	0 363147	A2	Canon	4/11/1990		
	48	WO	99/24527	A1	OMD Devices	5/20/1999		
	49	WO	01/03126	A2	Univ. of California	1/11/2001		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	50	"Ferrocene--Molecule of the Month" Jun. 1996, University of Oxford Web Page, <a href="http://www.ncl.ox.ac.uk/mom/ferrocene/ferrocene2.html">http://www.ncl.ox.ac.uk/mom/ferrocene/ferrocene2.html</a> .	
	51	"Ferrocene--Synthesis", Jun. 1996, University of Oxford Web Page, <a href="http://www.ncl.ox.ac.uk/mom/ferrocene/synthesis.html">http://www.ncl.ox.ac.uk/mom/ferrocene/synthesis.html</a> .	
	52	BALL ET AL. (2000) "Electrochemistry in Nanovials Fabricated by Combining Screen Printing and Laser Micromachining" Anal. Chem. 72: 497-501	
	53	BANSAL ET AL. (1998) "Electrochemical Properties of (111)-Oriented n-Si Surfaces Derivatized and Covalently-Attached Alkyl Chains" J. Phys. Chem. 102:7:1067-1070	
	54	BATEMAN ET AL. (1998) Alkylation of Porous Silicon by Direct Reaction with Alkenes and Alkynes" Angew. Chem. Int. Ed. 37:19:2683-2685	
	55	BOUKHERROUB ET AL. (1999) "Controlled Functionalization and Multistep Chemical Manipulation of Covalently Modified Si(111) Surfaces" J. Am. Chem. Soc. 121: 11513-11515	
	56	BRATTEN ET AL. (1997) Micromachining Sensors for Electrochemical Measurement in Subnanoliter Volumes" Anal. Chem. 69: 253-259	
	57	BUCHLER AND NG (2000) In <i>The Porphyrin Handbook, Vol. 3</i> , Pages 245-294, Eds. K. M. Kadish, K. M. Smith, R. Guilard, Academic Press, San Diego, CA	
	58	BURIAK ET AL. (1998) "Lewis Acid Mediated Functionalization of Porous Silicon with Substituted Alkenes and Alkynes" J. Am. Chem. Soc. 120: 1339-1340	
	59	CHABACH ET AL. (1996) "Mixed-Metal Triple-Decker Sandwich Complexes with the Porphyrin/Phthalocynine/Porphyrin Ligand System" Angew. Chem. Int. Ed. Engl., 35: 898	
	60	CLAUSEN ET AL. (2000) Investigation of Tightly Coupled Porphyrin Arrays Comprised of Identical Monomers for Multibit Information Storage" J. Org. Chem. 65: 7371-7378	
	61	CLELAND ET AL. (1995) "Direct Functionalization of Silicon via the Self-Assembly of Alcohols" J. Chem. Soc. Faraday Trans. 91(21) 4001-4003	
	62	CLARK ET AL. (1997) "Electrochemical Analysis in Picoliter Microvials" Anal. Chem. 69: 259-263	
	63	CLARK ET AL. (1998) "Characterization of Electrochemical Responses in Picoliter Volumes" Anal. Chem. 70: 1119-1125	
	64	COLLIER ET AL. (1999) "Electronically Configurable Molecular-Based Logic Gates" Science 265: 391-394	
	65	COTTON ET AL (1976) Basic Inorganic Chemistry, pp. 125, 497, 518	

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66	COULTER ET AL. (2000) "Reactions of Substituted Aromatic Hydrocarbons with the Si(001)Surface" J. Vac. Sci. Technol. A 18(4) 1965-1970	
67	DUCHOWSKI ET AL. (1990) Spectroscopic Characterization of Triple Decker Lanthanide Porphyrin Sandwich Complexes. Effects of Strong $\pi$ $\pi$ Interactions in Extended Assemblies" J Am. Chem. Soc. 112: 8807-8811	
68	GAVIN ET AL. (1996) "Continuous Separations with Microfabricated Electrophoresis-Electrochemical Array Detection" J. Am Chem. Soc. 118: 8932-8936	
69	GORMAN (1997) "Encapsulated Electroactive Molecules" Adv. Mater. 9(14) 1117-1119	
70	GORMAN (1999) "Molecular Structure-Property Relationships for Electron-Transfer Rate Attenuation in Redox-Active Core Dendrimers" J. Am. Chem. Soc. 121: 9958-9966	
71	GROSS (2001) "Investigation of Rational Synthesis of Heteroleptic Porphyrinic Lanthanide (Europium, Cerium) Triple-Decker Sandwich Complexes" Inorg. Chem. 40: 4762-4774	
72	GRYKO (2000) "Synthesis of Porphyrin-Linker-Thiol Molecules with Diverse Linkers for Studies of Molecular-Based Information Storage" J. Org. Chem. 65: 7345-7355	
73	GRYKO (2000) "Synthesis of Thiol-Derivatized Ferrocene-Porphyrins for Studies of Multibit Information Storage" J. Org. Chem. 65: 7356-7362	
74	GRYKO (2001) "Studies Related to the Design and Synthesis of a Molecular Octal Counter" J. Mater. Chem. 11: 1162-1180	
75	HYDE (1985) "Ellipsometric Measurements of the Pt-Aqueous Electrolyte Interface, in the Absence and in the Presence of Specific Anionic Adsorption" J. Electroanal. Chem. 186: 267-286	
76	JIANG ET AL. (1998) "Heteroleptic Triple-Decker (Phthalocyaninato)-Porphyrinato) Europium (III) Complexes: Synthesis and Electrochemical Study" Inorganica Chimica Acta 268: 49-53	
77	KOVACH ET AL. (1985) "Faradaic Electrochemistry at Microcylinder, Band, and Tubular Band Electrodes" 185: 285-295	
78	LI ET AL. (2000) "Synthesis of Thiol-Derivatized Europium Porphyrinic Triple-Decker Sandwich Complexes for Multibit Molecular Information Storage" J. Org. Chem. 65: 7379-7390	
79	NAGALE ET AL. (1998) "Individually Addressable, Submicrometer Band Electrode Arrays. 1. Fabrication from Multilayered Materials" Anal. Chem. 70: 2902-2907	
80	ROTH (2000) "Molecular Approach Toward Information Storage Based on the Redox Properties of Porphyrins in Self-Assembled Monolayers" J. Vac. Sci. Technol. B. 18(5) 2359-2364	

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81	RUBEN ET AL. (2000) "Multilevel Molecular Electronic Species: Electrochemical Reduction of a [2X2] Co <sub>4</sub> Grid Type Complex by 11 Electrons in 10 Reversible Steps" Angew. Chem. Int. Ed. 39(22) 4139-4142	
82	SOMMERAUER ET AL. (1996) "Separation of 1(3), 9(10), 16(17), 23(24)-Tetrasubstituted Phthalocyanines with Newly Developed HPLC Phases" J. Am Chem. Soc. 118: 10085-10093	
83	WONG ET AL. (1974) "Lanthanide Porphyrin Complexes, A Potential New Class of Nuclear Magnetic Resonance Dipolar Probe" J. Am. Chem. Soc. 96(22) 7149-7150	
84	ZHU ET AL. (1999) "Chemical Vapor Deposition of Organic Monolayers on Si(100) via Si-N Linkages" Langmuir 15: 8147-8154	

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